

Work Order ID 77173***77173***

Page 1

Monday, November 28, 2011 8:50:24 AM

Item ID: D412-706-011

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Fuel Purge Canister

Start Date: 11/28/2011 Start Qty: 1.00

1

Cust Item ID:

Required Date: 12/9/2011 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan: *MF*Date: *11-11-28* Tooling:

Date:

Run Start ***NR1***

QC:

Date: SPC (Y/N):

Date:

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

Draw Nbr

Revision Nbr

DSI 9494

A

IIN-D412-706

A

100

0.00

1000DOCUMENT CONTROL *MS*

DC

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D412-706-011 CHG003 *5/12/01/12**MS 11-12-01*
①

110

0.00

110

Pick Kit

Packaging

Memo

0.00

Packaging

11/11/30
MS

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Page 2

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Start Date: 11/28/2011 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 12/9/2011 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID Tool # Plan Code Accept Qty Reject Qty Reject Number Insp. Stamp

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control

130

0.00

130

Packaging

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPPD412-706-011

Location: 22PPP Rev: E

140

0.00

140

QC

Memo

0.00

Quality Control

QC21- Final Inspection - Work Order Release

12/1/12

12/1/12
mf
12-01-12

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Monday, November 28, 2011 8:50:22 AM

Page 1

Work Order ID: 77173
Parent Item: D412-706-011
Parent Item Name: Fuel Purge Canister

Start Date: 11/28/2011 Required Date: 12/9/2011
Start Qty: 1.00 Required Qty: 1.00

Comments: IPP Rev:E 04.12.03 Remove AN6289-6D; Change Qty of 924-6DKJ/JLM
IPP Rev:F 08-05-14 revise comment in seq.17/24 DD verified by:EC
EC verified by:DD IPP Rev:H 10.03.23 as per IIN revA DD verified by:EC IPP Rev:I 10.05.10 as per chg003 DD verified :EC IPP REV K 11.06.17 AS PER CHG 002 JLM VERIFIED BY:ec

IPP REV:

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2001-4 Valve Assembly (1/4")		Manufactured	No			110	Each	4.0000	1	0			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST002		4							
				74033		4							
D3262-043 Canister Assembly		Manufactured	No			110	Each	0.0000					
D3264-1 Bracket		Manufactured	No			110	Each	2.0000					
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST144		2							
				74120		2							
D3297-1-0098 HOSE ASS'Y		Manufactured	No			110	Each	4.0000	1	1			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST194		4							
				75973		4							
D3297-3-0085 HOSE ASS'Y		Manufactured	No			110	Each	4.0000	1	1			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST194		4							
				75972		4							

B75970 11/12/11
B75995 11/12/11

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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Page 2

Work Order ID: 77173

Parent Item: D412-706-011

Parent Item Name: Fuel Purge Canister

Start Date: 11/28/2011

Required Date: 12/9/2011

Start Qty: 1.00

Required Qty: 1.00

~~D3297-3-0210~~

HOSE ASS'Y

Manufactured No

110 Each 4.0000

Location

Loc Qty

Loc Code

ST194

4

76204

4

~~D4054-001~~

Tube Assembly

Manufactured No

110 Each 0.0000

~~D4054-003~~

Tube Assembly

Manufactured No

110 Each 0.0000

~~D3298-005~~

Tube Assembly

Manufactured No

110 Each 0.0000

~~D3298-007~~

Tube Assembly

Manufactured No

110 Each 0.0000

~~D4054-009~~

Tube Assembly

Manufactured No

110 Each 0.0000

~~D3299-7~~

Fitting

Manufactured No

110 Each 0.0000

~~D3299-3~~

Fitting

Manufactured No

110 Each 2.0000

Location

Loc Qty

Loc Code

ST046

2

55530

2

~~D3299-5~~

Fitting

Manufactured No

110 Each 3.0000

Location

Loc Qty

Loc Code

ST047

3

55531

3

~~D3301-1~~

Placard

Manufactured No

110 Each 5.0000

Location

Loc Qty

Loc Code

ST047

5

73092

5

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Shop Packet Print

Page 2

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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Work Order ID: 77173

Parent Item: D412-706-011

Parent Item Name: Fuel Purge Canister

Start Date: 11/28/2011

Required Date: 12/9/2011

Start Qty: 1.00

Required Qty: 1.00

D3301-3
Placard

Manufactured No

110 Each 3.0000

1 1

Location

Loc Qty

Loc Code

ST047

3

73093

3

Manufactured No

110 Each 7.0000

1 1

Location

Loc Qty

Loc Code

ST143

7

73094

7

Manufactured No

110 Each 5.0000

1 1

Location

Loc Qty

Loc Code

ST143

5

73095

5

Manufactured No

110 Each 9.0000

2 2

Location

Loc Qty

Loc Code

ST048

9

73096

9

Purchased No

110 Each 886.0000

4 4

Location

Loc Qty

Loc Code

ST350

886

115371

46

117423

340

118626

300

119355

200

Purchased No

110 Each 10.0000

1 1

Location

Loc Qty

Loc Code

ST329

10

119000

10

AN3-5A
Bolt

AN814-8D
Plug

Monday, November 28, 2011 8:50:23 AM

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Page 3

W/O:		WORK ORDER CHANGES					
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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Page 4

Work Order ID: 77173

Parent Item: D412-706-011

Parent Item Name: Fuel Purge Canister

Start Date: 11/28/2011

Required Date: 12/9/2011

Start Qty: 1.00

Required Qty: 1.00

AN815-6D

Union-M-Flare

Purchased

No

110

Each

52.0000

2

2

Location

Loc Qty

Loc Code

ST324

52

119396

12

119433

20

119438

20

AN815-8D

Union-M-Flare

Purchased

No

110

Each

6.0000

1

1

Location

Loc Qty

Loc Code

ST324

4

119546

4

ST329

2

118840

2

AN832-6D

UNION

Purchased

No

110

Each

14.0000

1

1

Location

Loc Qty

Loc Code

ST332

14

119014

14

AN833-6D

Elbow, Bulkhead-M-Flare

Purchased

No

110

Each

11.0000

1

1

Location

Loc Qty

Loc Code

ST327

5

119546

5

ST333

6

118840

6

AN833-8D

ELBOW

Purchased

No

110

Each

4.0000

1

1

Location

Loc Qty

Loc Code

ST333

4

118823

4

Monday, November 28, 2011 8:50:23 AM

Shop Packet Print

Page 4

W/O:		WORK ORDER CHANGES					
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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Page 5

Work Order ID: 77173

Parent Item: D412-706-011

Parent Item Name: Fuel Purge Canister

Start Date: 11/28/2011

Required Date: 12/9/2011

Start Qty: 1.00

Required Qty: 1.00

AN924-6D Purchased No 110 Each 24.0000

Nut

Location Loc Qty Loc Code

ST329 24

119433 4

119436 20

AN924-8D Purchased No 110 Each 10.0000

NUT

Location Loc Qty Loc Code

ST329 10

119510 10

AN938-6D Purchased No 110 Each 11.0000

Tee

Location Loc Qty Loc Code

ST330 11

101925 1

119510 10

AN960JD10L NAS1149D0332J Purchased No 110 Each 0.0000

Washer

AN960JD10 NAS1149D0363J Purchased No 110 Each 0.0000

Washer

AN960JD916 NAS1149D0963J Purchased No 110 Each 0.0000

WASHER

Monday, November 28, 2011 8:50:23 AM

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Page 5

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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Work Order ID: 77173

Parent Item: D412-706-011

Parent Item Name: Fuel Purge Canister

Start Date: 11/28/2011

Required Date: 12/9/2011

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Nut

Purchased

No

110

Each

7,957.0000

4

4

Location

Loc Qty

Loc Code

ST300

213

117441

16

117885

35

118451

5

118927

157

ST516

5994

119017

5994

ST518

1750

119075

1750

MS21919-WDG9

Clamp

Purchased

No

110

Each

12.0000

2

2

Location

Loc Qty

Loc Code

ST307

12

118686

12

MS21920-42

CLAMP(per MIL-DTL-8783C)

Purchased

No

110

Each

24.0000

2

2

Location

Loc Qty

Loc Code

ST451

24

119659

14

119673

10

MS29512-06

O-RING

Purchased

No

110

Each

26.0000

7

7

Location

Loc Qty

Loc Code

ST294

26

119124

11

119537

15

Monday, November 28, 2011 8:50:23 AM

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Page 6

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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Picklist Print

Monday, November 28, 2011 8:50:23 AM

Page 7

Work Order ID: 77173

Parent Item: D412-706-011

Parent Item Name: Fuel Purge Canister

Start Date: 11/28/2011

Required Date: 12/9/2011

Start Qty: 1.00

Required Qty: 1.00

MS29512-08

O-RING

Purchased

No

110

Each

16.0000

3

3

Location

Loc Qty

Loc Code

ST294

16

113706

1

119510

15

MS35489-16

GROMMET

Purchased

No

110

Each

18.0000

3

11/11/30

Location

Loc Qty

Loc Code

ST295

18

118006

18

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

REFERENCE ONLY

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-706 REV. A AND ICA-D412-706 REV. 0

REF TCCA STC: SH04-54

REF FAA STC: SR02055NY

REF. EASA STC: EASA.IM.R.S.01180

DESCRIPTION:

AT CHG 002, THE D412-706-011 FUEL PURGE CANISTER INSTALLATION HAS BEEN MODIFIED WITH LARGER VENT LINES TO ELIMINATE BACK PRESSURE THAT MAY OCCUR WHEN STARTING THE SECOND ENGINE IF THE CANISTER HAS NOT BEEN PROPERLY DRAINED. THE BACK PRESSURE IS EVIDENCED BY AN ONGOING VAPOR DISCHARGE FROM THE CANISTER VENT AT LOW TO MEDIUM RPM WHILE STARTING THE 2nd ENGINE. THE UPDATED PARTS LIST IS SHOWN BELOW:

IS

QTY -011	PART NUMBER	DESCRIPTION
X	D412-706-011	FUEL PURGE CANISTER INSTALLATION (212/412)
1	D2001-4	VALVE ASSEMBLY
1	D3262-043	CANISTER ASSEMBLY (WAS D3262-041)
2	D3264-1	BRACKET
1	D3297-1-0098	HOSE ASSEMBLY
1	D3297-3-0085	HOSE ASSEMBLY
1	D3297-3-0210	HOSE ASSEMBLY
1	D4054-001	TUBE ASSEMBLY (WAS D3298-001)
1	D4054-003	TUBE ASSEMBLY (WAS D3298-003)
1	D3298-005	TUBE ASSEMBLY
1	D3298-007	TUBE ASSEMBLY
1	D4054-009	TUBE ASSEMBLY (WAS D3298-009)
1	D3299-7	FITTING (WAS 3299-1)
1	D3299-3	FITTING
1	D3299-5	FITTING
1	D3301-1	PLACARD
1	D3301-3	PLACARD
1	D3302-1	DOUBLER
1	D3302-3	DOUBLER
2	D3329-1	BUSHING

Continue on next sheet

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 11.06.06
CERT. NO.: SH04-54
ISSUE NO.: 1

B	SHEET 2: D412-706-011 KIT: QTY(7) MS29512-06 WAS QTY(8), QTY(3) MS29512-08 WAS QTY(2), MS35489-16 WAS MS35489-11; DSI 9494-011 KIT P/L: ADDED AN814-8D PLUG AND MS35489-16 GROMMET, QTY(3) MS29512-08 O-RING WAS QTY(2). SHEET 3: AN814-8D PLUG WAS AN814-6D PLUG AND MS29512-08 WAS MS29512-06. REASON: NCR11-641.		MB	11.06.03
A	NEW ISSUE		RF	10.01.07
REV.	DESCRIPTION		BY	DATE
DESIGN	RF	DART AEROSPACE LTD		
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA		
CHECKED	UP	DRAWING NO.	REV. B	
MFG. APPR.	N/A	DSI 9494	SHEET 1 OF 3	
APPROVED	UP	TITLE	SCALE	
DE APPR.	UP	212/412 CANISTER UPGRADE KIT	NTS	
DATE	11.06.03		COPYRIGHT © 2010 BY DART AEROSPACE LTD	
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.				

REFERENCE ONLY

Continue from previous sheet

B	4	AN3-5A	BOLT
	1	AN814-8D	PLUG
	2	AN815-6D	UNION
	1	AN815-8D	UNION (WAS AN815-6D)
	1	AN832-6D	UNION
	1	AN833-6D	ELBOW
	1	AN833-8D	ELBOW (WAS AN833-6D)
	4	AN924-6D	NUT
	1	AN924-8D	NUT (WAS AN924-6D)
	1	AN938-6D	TEE
	4	AN960JD10L	WASHER (OR NAS1149D0332J)
	8	AN960JD10	WASHER (OR NAS1149D0363J)
	2	AN960JD916	WASHER
	4	MS21042L3	NUT
	2	MS21919WDG9	CLAMP
	2	MS21920-42	CLAMP
B	7	MS29512-06	O-RING (WAS MS28778-6)
	3	MS29512-08	O-RING (WAS MS28778-8)
	1	MS35489-16	GROMMET

FOR CUSTOMERS WHO HAVE EXPERIENCED THIS PROBLEM IN SERVICE, THE DSI 9494-011 UPGRADE KIT IS AVAILABLE TO UPGRADE THE INSTALLATION FROM CHG 001 TO CHG 002.

QTY -011	PART NUMBER	DESCRIPTION
X	DSI 9494-011	212/412 CANISTER UPGRADE KIT
1	D3262-043	CANISTER ASSEMBLY
1	D4054-001	TUBE ASSEMBLY
1	D4054-003	TUBE ASSEMBLY
1	D4054-009	TUBE ASSEMBLY
1	D3299-7	FITTING
B	1	AN814-8D
	1	AN815-8D
	1	AN833-8D
	1	AN924-8D
B	3	MS29512-08
	1	MS35489-16





WEIGHT AND BALANCE:
NO CHANGE

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE #02)

DATE: 11.06.06
CERT. NO.: SH04-54
ISSUE NO.: 1

DESIGN	RF	DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		DSI 9494	SHEET 2 OF 3
APPROVED		TITLE	SCALE
DE APPR.		212/412 CANISTER UPGRADE KIT	NTS
DATE	11.06.03	<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	